	INTERNATIONAL SEARCH REPO	ORT	International application No.		
	AND AND THE PROPERTY OF THE PARTY OF THE PAR		PCT/US03/31987		
A. CLASSIFICATION OF SUBJECT MATTER IPC(7): H01L 23/02; H05K 7/20 US CL: 257/678,685-687,706,712,713, 720, 723,724,738,773,778-780,784,787,790,796; 361/704,705,707,709-711 According to International Patent Classification (IPC) or to both national classification and IPC B. FIELDS SEARCHED Minimum documentation scarched (classification system followed by classification symbols) U.S.: 257/678,685-687,706,712,713, 720, 723,724,738,773,778-780,784,787,790,796: 361/704,705,707,709-711					
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched					
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)					
C. DOCUMENTS CONSIDERED TO BE RELEVANT					
Category =	ry = Citation of document, with indication, where appropriate, of the relevant passages			Relevant to claim No.	
X,P	US 6,414,381A (Takeda) 2 July 2002, col. 8 lines 35-67, col. 10 lines 15-67, and col. 11 lines 1-67.			1-9,11, 12, 15-17,19- 34,38-40,43-55,57- 64,66-70,72-90, 93- 103,105-109, 112,113, 115-128, 131-147, 150, 151,153-168,174- 176,178-188,190-200	
Y,P Y,P	US 5,994,166A (Akram et al.) 30 November 1999, col. 7 lines 27-67 and col. 8 lines 1-65 US 6,649,448A (Tomihara) 18 November 2003, col. 7 lines 50-65, col. 8 1-65, and col. 9 lines 1-67.			10,18,41,71,169- 173,189 37,42,65,104,114,152, 177	
Y,P	US 6,734,539A (Degani et al.) 11 May 2004, col. 1 lines 25-60 and col. 5 lines 15-65.			56,91,92,129,130	
Y,P	US 6,552,423A (Song et al.) 22 April 2003, col. 3 lines 52-63.			13,14,35,36,110,111.1 48,149,	
Further documents are listed in the continuation of Box C. See patent family annex.					
Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance		"T" jater document published after the institutional filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be			
"5" carrier application or patent published on or after the international filing date		considered nove		der animakui ut aktorni (1 pa	
"L" ducament which may throw doubts on priority claim(s) or which is cited to establish the publication date of another clusten or other special reason (as specified)		"Y" document of pa considered to in combined with			
O document referring to an anal districture, use, exhibition or other means *P* document published prior to the international filing date but later than the priority date claimed		"&" document member of the same patent family			
	ual completion of the international search	Date of mailing of the	ate of mailing of the international search report		
		16 JUL 2004			
11 June 2004 (01.06.2004) Name and mailing address of the ISA/US		Authorized officer			
Mail Stop PCT, Attn: ISA/US Commissioner for Patents P.O. Box 1450		Alonzo Chambliss Telephone No. 571 272-1927			
	indria, Virginia 22313-1450 (703) 305-3230				

Form PCT/ISA/210 (second sheet) (July 1998)